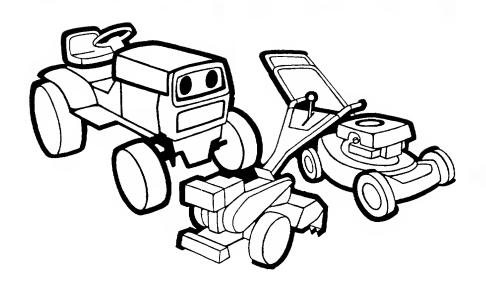
# OWNERS MANUAL



20" & 22" ROTARY MOWERS

ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST

Important:

Read Safety Rules and Instructions Carefully

Model Numbers 114-073-000 114-074-000 114-083-000

114-084-000

Thank you for purchasing an American built product.

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# LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free cf charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where he unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTI).

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

# SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

#### **TRAINING**

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- 2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
- Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- 4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

#### **PREPARATION**

- Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
- Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- Do not wear loose fitting clothing that could get caught on the mower.
- 4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
- 6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- 8. Mow only in daylight or in good artificial light.
- Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run.

#### **OPERATION**

- Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
- Stop the blade when crossing gravel drives, walks or roads.
- 4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- 6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- 8. Do not run the engine indoors.
- Mow across the face of slopes, never up-anddown. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
- Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
- 11. Never operate mower without proper guards, plates or other safety protective devices in place.

#### MAINTENANCE AND STORAGE

- 1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- 4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
- Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

# **SAFE OPERATION PRACTICES (Continued)**

#### **BLADE BRAKE/CLUTCH MAINTENANCE**

NOTE: Any required repair work on the blade brake/clutch should be performed by an authorized service dealer. If you cannot locate an authorized service dealer, contact the manufacturer as set forth on your copy of the Owner's Registration Card.

- The blade brake/clutch hand control is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. This hand control must operate freely in both directions.
- 2. Striking a solid object can cause damage to the blade brake/clutch or to the engine crankshaft. Extensive vibration of the mower during operation is an indication of damage and the

unit should be promptly inspected and repaired.

- 3. A leak in the lower engine crankshaft oil seal could expose the blade brake/clutch friction pads to excess oil resulting in blade or brake slippage, which could increase the stopping time of the blade. Oil collection on the floor beneath the mower during storage may be an indication of an oil seal leak. The unit should be checked by an authorized service dealer.
- 4. Periodically inspect the inner control cable in the area where it attaches to the hand control. If the cable becomes frayed, it could cause the blade brake/clutch to operate improperly. Also, be careful to avoid pinching the blade brake/clutch control cable when storing the handle.



This unit is shipped WITHOUT GAS-OLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

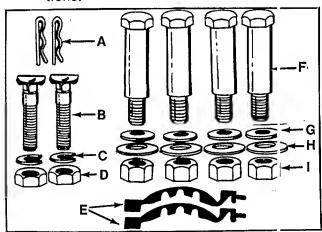


FIGURE 1.

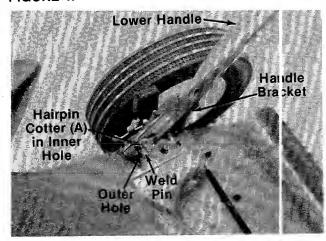


FIGURE 2.

# **ASSEMBLY**

#### Contents of hardware pack: (See figure 1)

- A (2) Hairpin Cotters
- B (2) Curved Carriage Bolts 1.38" Long
- C (2) Lock Washers 5/16" I.D.
- D (2) Hex Nuts 5/16-18 Thread
- E (2) Cable Ties
- F (4) Shoulder Bolts\*
- G (4) Belleville Washers 3/8" I.D. x 7/8" O.D.\*
- H (4) Belleville Washers 3/8" I.D. x 1-1/8" O.D.\*
- 1 (4) Hex Nuts 3/8-16 Thread\*
- \*Units with wheels not assembled.
  - Remove the lawn mower, loose parts, hardware pack and literature from the carton. Make certain all parts and literature have been removed before the carton is discarded.
- Extend the throttle control cable (attached to the upper handle) and the blade brake/clutch cable (attached to the blade brake/clutch beneath the deck) and place on the floor. Be careful not to bend or kink control cables.
- 3. Place lower handle in position over weld pins in handle mount brackets on deck. Make certain the instruction label on the lower handle can be read from the operating position. Secure by placing two hairpin cotters (A) in inner hole on weld pins. See figure 2.



It may be necessary to bend the ends of the lower handle outward slightly to obtain a snug fit against the bracket.



There are two (2) holes in the handle mount brackets. Place hairpin cotter in the inner hole for operation. The outer hole is for storage.

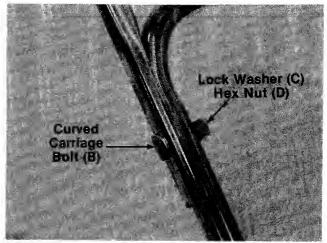
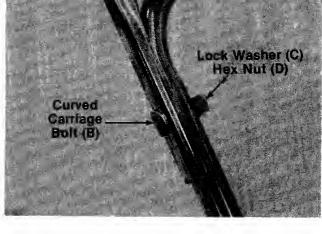


FIGURE 3.

'Z" End of Blade Brake/Clutch Cable



Flange on Plastic Fitting Upper Hole on Bottom of Housing

Slot

FIGURE 4.

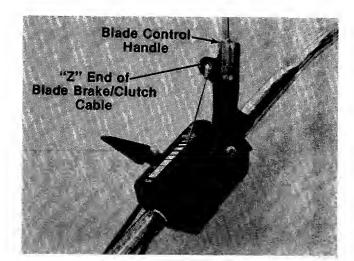


FIGURE 5.

4. Place upper handle in position over lower handle. Control housing should be on the right side of the handle. Secure upper handle with two curved carriage bolts (B), lock washers (C) and hex nuts (D). See figure 3.



Reference to left or right side of machine is determined from operator's position at the handle facing forward.

5. Route the blade brake/clutch cable under the lower handle. Place end of cable into the upper hole on the bottom of the control housing. and through the slot on the side of the housing as shown. The angle of the flange on the plastic fitting must be positioned downward as shown in figure 4. Be careful not to bend or kink the cable.



The cable must be assembled as shown for proper blade brake/ clutch operation.

- 6. Snap the plastic fitting on the end of the cable into the control housing.
- 7. Hook the "Z" end of the blade brake/clutch cable into the hole in the blade brake/clutch control handle. See figure 5. If additional slack is needed in order to hook the cable into the handle, proceed as follows.

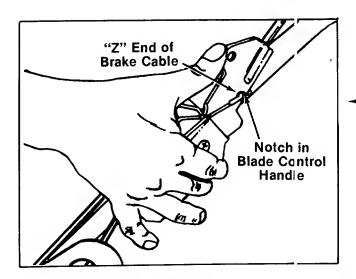


FIGURE 6.

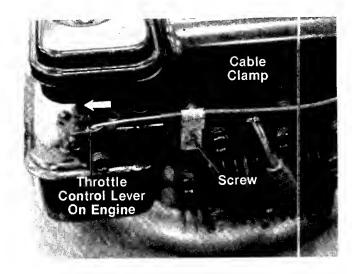
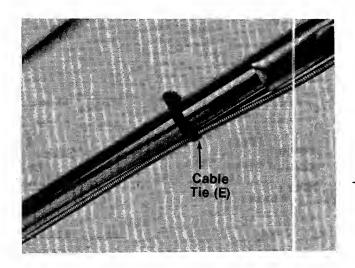


FIGURE 7.



- a. Hook the "Z" end of the cable into notch provided in the blade control handle. See
   figure 6.
- b. Push release lever (see figure 12), then squeeze blade control handle against upper handle.
- c. Release the blade control handle, unhook the cable from the notch and hook it into the hole in the blade control handle.

- 8. Remove the engine shroud if the unit is so equipped. Replace it after attaching the throttle control cable.
- 9. Place the throttle control lever on the handle in "Fast" position.
- 10. Push the throttle control lever on the engine to the full open position (as far toward the outside of the unit as it will go) as shown in figure
- 11. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
- 12. Remove the screw on the cable clamp shown in figure 7. Slip the control casing under the clamp. With the throttle lever on the engine still in the full open position, replace and tighten the screw to secure the throttle control cable.

13. Secure throttle control cable and blade brake/clutch cable to upper and lower handles with cable ties (E) provided. See figure 8.

FIGURE 8.

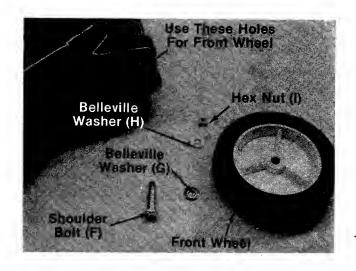


FIGURE 9.

14. Units without height adjustment brackets—If the wheels on your mower are not already assembled, proceed as follows. The front wheels must be assembled in one of the three holes nearest the front of the deck. See figure 9. The rear wheels must be assembled in one of the three holes nearest the rear of the deck.

The three holes provide three cutting heights for your mower. Use the same hole location for all four wheels when assembling. If wheels are to be assembled in the lowest cutting position (highest hole in the deck), refer to the note below.

-To assemble the wheels (see figure 9):

- A. Place shoulder bolt (F) through wheel.
- B. Place one believille washer 7/8" O.D. (G) on shoulder bolt, with the cupped side of washer toward the deck (away from wheel).
- C. Secure wheel to deck with one belleville washer 1-1/8" O.D. (H) on the inside of the deck (cupped side against the deck) and hex nut (I).



If the lowest cutting position (highest hole in the deck) is used, it is necessary to place the 1-1/8" washer on the outside of the deck and the 7/8" washer on the inside.

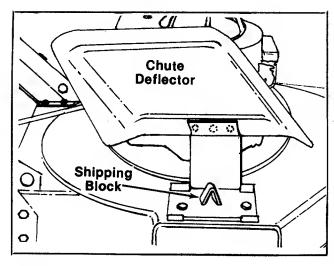


FIGURE 10.

15. Check all nuts and bolts for correct tightness.



Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation. See figure 10.

# **CONTROLS**

#### THROTTLE CONTROL

The throttle is located on the right side of randle. It controls engine speed. See figure 11.

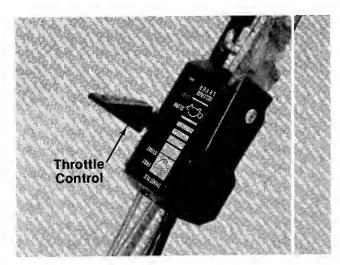


FIGURE 11.
BLADE BRAKE/CLUTCH CONTROL

WARNING
THIS CONTROL MECHANISM IS A
SAFETY DEVICE. NEVER ATTEMPT
TO BYPASS ITS OPERATIONS

The blade brake/clutch control is located on the upper handle of the mower. The clutch handle engages and disengages the blade.

To engage the blade, pull the side release lever away from the unit. See figure 12. Pull the clutch control handle against the upper handle. Felease side lever.

Release the clutch control handle to stop the blade from turning.

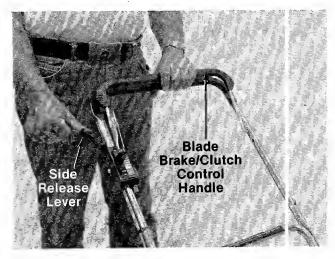


FIGURE 12.

#### **OPERATION**

# Caution Do Not Operate Mower Unless This Guard Or Entire Grasscatcher Is In Its Proper Place. DANGER KEEP HANDS and FEET AWAY

#### FIGURE 13.

Keep hands and feet away from the chute area on cutting deck. See figure 13.



For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment.

#### BEFORE STARTING

- 1. Fill sump with oil, as instructed in the separate engine manual packed with your unit.
- 2. Fill fuel tank, using clean, fresh, lead-free, low-lead or **regular** grade leaded gasoline. Fill tank completely!

DO NOT MIX OIL WITH GASOLINE.

3. Attach spark plug wire to spark plug.

#### START ENGINE

- 1. Move throttle control lever to "START" position.
- With the blade brake/clutch control released, crank engine by pulling recoil starter with a quick firm pull. Do not pull out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.
- After two or three full firm pulls on recoil, or as soon as engine starts, move throttle control to desired engine speed.

#### TO STOP ENGINE

- 1. Move throttle control lever to "STOP" position.
- Disconnect spark plug wire from spark plug and ground against the engine to prevent accidental starting while equipment is unattended.

#### TO ENGAGE THE BLADE

- 1. Start engine as instructed above. Allow the engine to warm up for one minute before attempting to engage the blade.
- To engage the blade, pull the side release lever away from the unit. Pull the blade brake/clutch control handle down against the upper handle. Release the side lever. See figure 12.



If a warm engine falters or stalls when attempting to engage the blade, refer to Carburetor Adjustment Section of this owner's manual.

3. Release the blade brake/clutch control handle to stop the blade from turning.

#### **USING YOUR ROTARY MOWER**

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

Striking a solid object can cause damage to the blade brake/clutch or to the engine crankshaft. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

# **ADJUSTMENTS**



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

# CUTTING HEIGHT ADJUSTMENT Units Without Height Adjustment Brackets

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when the thumb lever is moved from one position to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. All wheels must be placed in the same relative position. See figure 14.



FIGURE 14.

#### Units Without Height Adjustment Brackets

Adjustment may be made by removing and moving axle bolts to desired position. Cutting heights will be raised as axle bolts are moved to a lower hole and lowered as axle bolts are moved to a higher hole in the deck. All axle bolts must be mounted in the same relative position. The front wheels must be assembled in one of the three holes nearest the front of the deck. The rear wheels must be assembled in one of the three holes nearest the rear of the deck. Belleville washers must be assembled on the inside and outside of the deck so that the cupped side of the washers are against the deck. Refer to assembly instructions on page 7.

#### **THROTTLE**

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

- Loosen, but do not remove, screw s∈curing throttle control wire assembly at ∈ngine. Refer to figure 7.
- 2. Move throttle control lever on handle to "FAST" position.
- 3. Move control lever on engine to full open position. Retighten screw to secure thrott e control wire assembly.

#### CARBURETOR ADJUSTMENTS



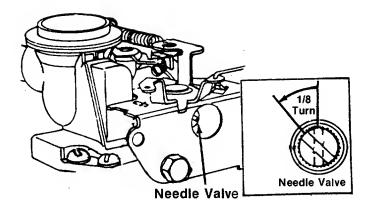
If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower.



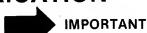
If a warm engine falters or stalls when attempting to engage the blade, the carburetor mixture should be adjusted 1/8 turn richer (counterclockwise). See figure 15.

The carburetor should be adjusted with the air cleaner in place and the blade control handle in the blade disengaged position.



#### FIGURE 15.

# LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Brake/Clutch—Lubricate the pivot points on the blade brake/clutch handle and the cable at least once a season with light oil. The control must operate freely in both directions.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

**Engine**—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

# MAINTENANCE



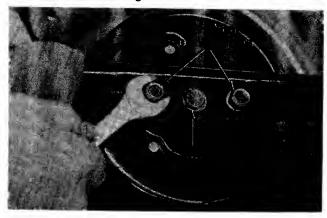
Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.



When tipping the unit, empty the fuel tank and keep engine spark plug side up.

#### **CUTTING BLADE**

To remove the cutting blade for sharpening or replacement, remove the two hex nuts and lock washers which hold the blade to the blade brake/clutch. See figure 16.



#### FIGURE 16.

When sharpening the blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

#### **Blade Mounting Torque**

Make certain that the center bolt which secures the blade brake/clutch and the two hex nuts which secure the blade are tightened to between 350 inch pounds (minimum) and 600 inch pounds (maximum).

To insure safe operation of your unit, all nuts and bolts must be checked periodically for correct tightness.

#### **DECK**

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



Do not direct the stream of water at a hot engine as damage to the engine may result.

#### **ENGINE OIL**

Check oil level before starting and after every 5 hours of operation. ADD oil as necessary to keep level to full mark on dipstick. Before removing dipstick, clean area around dipstick to prevent dirt from entering oil fill tube. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil fill opening by tipping the unit on its side. Oil capacity 1-1/4 pints.

#### **AIR CLEANER**

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service air cleaner, refer to the separate engine manual packed with your mower.

#### SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

#### **BLADE BRAKE/CLUTCH**

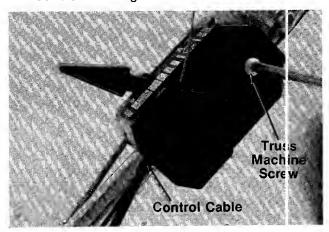
This unit is equipped with a blade brake/clutch. If for some reason the blade brake/clutch becomes inoperative, it is suggested that all repair work on the blade brake/clutch be performed by an authorized service dealer. The unit should be inspected by an authorized service dealer if any of the following conditions are noticed.

- 1. Frayed clutch control cable.
- 2. Leaking oil seal (oil collection on the floor during mower storage).
- 3. Extensive vibration of the unit.

#### Blade Brake/Clutch Removal

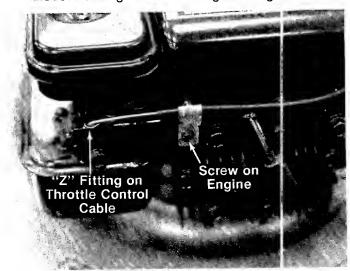
- 1. Disconnect the spark plug wire and ground it against the engine block.
- Empty fuel tank and drain oil from crankcase.
- 3. Remove the cable ties which secure control cables to the handle.
- Disconnect the "Z" fitting on the blade brake/clutch cable from the clutch control handle.

- Remove one truss machine screw on the inside of the control housing as shown ir figure 17.
- 6. Loosen the truss machine screw on the outside of the control housing until the two halves of control housing can be separated enough for the control cable to be freed. Slide the blade brake/clutch cable out of the control housing.
- 7. Retighten the truss machine screws on the control housing.



#### FIGURE 17.

8. Disconnect the throttle control cable from the engine by loosening screw on engine and disconnecting the "Z" fitting. See figure 18.



#### FIGURE 18.

9. Tip the mower on its side. Remove the blade by removing two hex nuts and lock washers. Refer to figure 16.

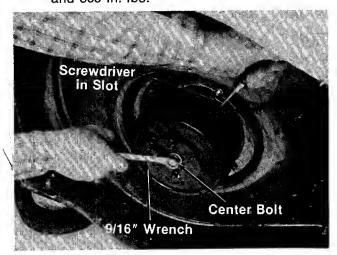


When reassembling, tighten her nuts to between 350 and 600 in. Ibs.

- 10. Remove the center bolt as follows.
  - a. Insert a screwdriver into the slot provided in the blade brake/clutch housing where the control cable enters housing. See figure 19.
  - b. Place a 9/16" wrench on the center bolt. Turn the wrench slowly until the screwdriver catches in a groove provided inside the clutch. The screwdriver will now keep the clutch from turning, and the center bolt and two belleville washers may be removed.



Upon reassembly, be certain to tighten center bolt to between 350 and 600 in. lbs.



#### FIGURE 19.

11. Support the engine with one hand. Remove the three self-tapping screws which secure the deck and blade brake/clutch to the engine. A ½" socket wrench is required. See figure 20.

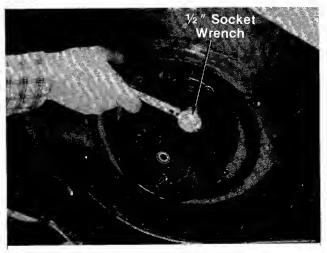


FIGURE 20.

- 12. Slide the blade brake/clutch cable through the hole in the deck as you lift off the engine and blade brake/clutch. Be careful not to kink control cable.
- 13. Remove blade brake/clutch from engine crankshaft.

#### **Blade Brake/Clutch Installation**

- Place the new blade brake/clutch on engine crankshaft. Line up holes on blade brake/clutch with mounting holes on engine.
- Place the two belleville washers onto crankshaft. Cupped side of washers must be against the blade brake/clutch. Secure with hex bolt finger tight only.
- Place cable through engine mounting hole on deck.
- 4. Reverse steps 1 through 12 of preceding section for reassembly.

### **OFF-SEASON STORAGE**

The following steps should be taken to prepare lawn mower for storage.

- 1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
- 2. Refer to engine manual for correct engine storage instructions.

- 3. Coat mower's cutting blade with chassis grease to prevent rusting.
- 4. Store mower in a dry, clean area.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially the bearings and cables.

# HANDLE STORAGE

The handle can be stored in an upright position to take less space. Move hairpin cotters to outer hole on weld pins (see figure 2). Grasp the lower handle at the bottom and push inward slightly. Tip the handle forward. It will lock in this position. Reverse this procedure to place the handle in the operating position.



**CAUTION** 

Be careful not to kink or pinch blade brake/clutch cable when storing the handle.



The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 003 is available as optional equipment for the mower shown in this manual.



- 1. DO NOT operate the mower without the entire grass catcher or chute deflector in place.
- 2. DO NOT operate the mower without the protective shield on the rear of the deck in place.



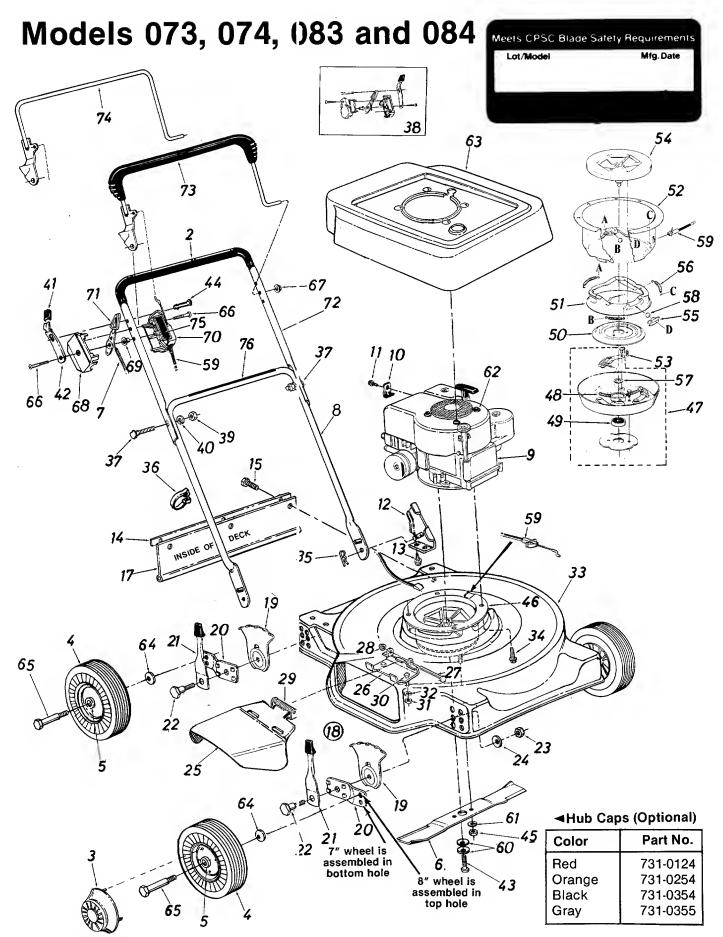
Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0176.

# **Trouble Shooting Chart**

	Trouble Shooting	- Criare
Problem	Cause	Remedy
1 Engine fails to start	A Check fuel tank for gas     B Spark plug lead wire disconnected     C Throttle control lever not in the starting position     D Faulty spark plug	<ul> <li>A Fill tank if empty.</li> <li>B Connect lead wire.</li> <li>C Move throttle lever to start position.</li> <li>D Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark</li> </ul>
	E Carburetor improperly adjusted, engine flooded  F Old stale gasoline	plug.  E Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures.  F Drain and refill with fresh gasoline.
2 Hard starting or	A Spark plug wire loose	A Connect and tighten spark
loss of power	B Carburetor improperly adjusted     C Dirty air cleaner	plug wire.  B Adjust carburetor. See separate engine manual.  C Clean air cleaner as described in separate engine manual.
3 Operation erratic	A Dirt in gas tank	A Remove the dirt and fill tank with fresh gas.
	<b>B</b> Dirty air cleaner	B Clean air cleaner as described in separate engine manual.
	C Water in fuel supply	C Drain contaminated fuel and fill tank with fresh gas.
	D Vent in gas cap plugged E Carburetor improperly adjusted	D Clear vent or replace gas cap.  E Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high	A Carburetor idle speed too slow	A Adjust carburetor. See separate engine manual.
speed	<ul><li>B Spark plug gap too close</li><li>C Carburetor idle mixture adjustment improperly set</li></ul>	B Adjust to .030". C Adjust carburetor. See separate engine manual.
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide	A Reset gap to .030" or replace spark plug.
	B Carburetor improperly adjusted	B Adjust carburetor. See separate engine manual.
	C Dirty air cleaner	C Clean air cleaner as described in separate engine manual.
6 Engine overheats	A Carburetor not adjusted properly	A Adjust carburetor. See
	B Air flow restricted	separate engine manual.  B Remove blower housing and clean as described in separate
	C Engine oil level low	engine manual. C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced	A Tighten blade. Balance blade.
	B Bent blade	<b>B</b> Replace blade.

Note: For repairs beyond the minor adjustments listed above contact your local authorized service dealer.



PARTS LIST FOR MODELS 073, 074, 083

AND 084 ROTARY MOWERS									
REF.	NO.	COLOR CODE	DESCRIPTION	NEW PART	REF.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
2	718-0145		Grip		41			Spring Lever Knob	
3	◀		Hub Cap	ļ	42	732-040 <sup>-</sup>		Lock Out Spring	
4	**		Wheel Ass'y. Comp.		43	710-0818	3	Hex Cent. L- Bolt 3/8-24	
5	1		Bearing					x 2.00" Lg.	
6	742-0220		20" Blade (073 & 074)		44	711-0719		Lock Pin .75" Dia. x 1.80	
_	742-0222		22" Blade (083 & 084)	1	45	712-0328		Special Hex Nut 5/16-24 Thd.	
7	746-0473		Throttle Control Wire—39"		46	717-0482	2	Blade Brake Clutch Ass'y.	
8	749-0373		Lower Handle (Chrome)	1				Comp.	
_	749-0372		Lower Handle (Painted)		47	14300	_	Clutch Blade Housing Ass'y.	
9	754 0000		Engine	i	48	732-0396	6	Comp. Spring .35" O.D. x	1 1
10	751-0369		Casing Clamp	N				2.00" Lg.	
11 12	710-0227		Hex AB-Tap Scr. #8 x .38" Lg.	ļ	49	741-0124	4	Ball Brg669" I.D. x 1.574"	
12	12935		Handle Mount Brkt. Ass'y.—					O.D.	
	10000		L.H.		50	14304		Clutching Cone	
	12936		Handle Mount Brkt. Ass'y.—		51	14305		Brake Cup Cone	
10	710 0000		R.H. (Not Shown)		52	14306	_	Clutch Housing	
13	710-0603		Hex Wash. Hd. B-Tap Scr.		53	710-0875	5	Hex Wash. TT-Tap ClScr.	
1.4	1 40 40	ļ	5/16-18 x .50" Lg.		- 4	740.000		_ ½-20 x .75" Lg.	
14	14846		Retaining Strip	N	54	719-0256		Fan Adapter	
15	710-0776		Hex Wash. Hd. AB-Tap Scr.		55	731-0520		Ball Block	1 1
17	704 0575		1/4" x .62" Lg.		56	732-0397	7	Extension Spring .35" O.D. x	•
17	731-0575		Rear Flap Ass'y.			700 000		1.75" Lg.	
18	14578		Height Adj. Ass'y.—R.H.†		57	736-0333	3	Fl-Wash690" I.D. x 1.060"	
	14579		Height Adj. Ass'y.—L.H.†			744 0000		O.D.	
10	45004		(Not Shown)		58	741-0326		Steel Ball .500" Dia.	
19 20	15261 15262	1	Height Adj. Plate†		59	746-0402		Clutch Cable—42"	
21	14832		Pivot Bart		60	736-0105	)	Bell-Wash400" I.D. x .88"	
22	738-0507		Spring Lever w/Knob†			700.0400		O.D.	1
23	712-0798		Shid. Bolt .500" Dia. x .375†		61	736-0169		L-Wash. 3/8" I.D.*	
24	736-0331		Hex Nut 3/8-16 Thd.*		62	726-0219		Snap On Scr. #8 x .38 Tap	11
24	750-0551	ľ	Bell-Wash39" I.D. x 1.13"		63	731-0656		Engine Shroud†	N
	736-0356		O.D. (073 & 083) Bell-Wash39" I.D. x 1.4"		64	736-0105	)	Bell-Wash400" I.D. x .88"	1 1
	750-0550	İ	O.D. (074 & 084)		65	700 0010	,	O.D.	1 1
25	14944	-	Chute Deflector Ass'y. Comp.		65	738-0213	)	Axle Bolt (Used w/o Height	
26	11130		Deflector Hinge Plate		1	738-0102	,	Adj.)	
27	711-0555		Pivot Pin			730-0102	•	Axle Bolt (Used w/Height	
28	726-0106		Cap Speed Nut 1/4 " Rod		66	710-0796		Adj.)	
29	732-0253		Torsion Spring		00	110-0190	,	Truss Mach. Hi-B Tap Scr. #12 x 1.50" Lg.	
30	710-0289		Hex Bolt 1/4-20 x .50" Lg.*		67	726-0135	1.0	Can Speed Nut 5/16/ Dad	0
31	712-0287		Hex Nut 1/4-20 Thd.*	- 1	68	731-0523		Cap Speed Nut 5/16" Rod Control Panel Half	
32	736-0329		L-Wash. 1/4" I.D.*		69	731-0524		Control Disc Pin	
33	14995		20" Deck Ass'y.		70	731-0524		Clutch Panel Half	1 1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14998		22" Deck Ass'y.	- 1	71	731-0528		Throttle Control Lever	1 1
34	710-0654		Hex Wash. Hd. TT-Tap Scr.		72	749-0536		Upper Handle (Chrome)	1 1
77	, 10 0004	1	3/8-16 x 1.00" Lg.			749-0538		Upper Handle (Painted)	
35	714-0104	l,	Intern. Cot. Pin 5/16" Dia.		73	731-0610		Control Handle Acet	
36	726-0192		Cable Tie		74	14320		Control Handle Ass'y.	
37	710-0671		Curved Carriage Bolt 5/16-18		75	777-3456		Control Labol Throttle	
	. 10 007 1		x 1.38" Lg.	1	76	777-3453		Control Label—Throttle	
38	753-0361	l l	Kit—Control Housing Comp.		_	8073-000		Instruction Label—Handle Hardware Pack (073)	
39	712-0267		Hex Nut 5/16-18 Thd.*		-1	8074-000		Hardware Pack (074 000 0	
10	736-0119		L-Wash. 5/16" I.D.*			30, 1000		Hardware Pack (074, 083 & 084)	
	. 00 0110	- 1	_ 1.4011. 0/10 1.D.		1			00+)	1

#### †Optional Parts

#### \*\*WHEEL CHART

	Plastic Rim		Steel Rim			
		cari da		Tread Type		
			Size	Twinline	Waffle	Bearings
Size			7 x 1.5 8 x 1.75	734-0639 734-0643	734-0637 734-0645	Ball Brgs. 3/8" I.D741-0267, ½" I.D741-0484, Spacer-750-0434 (Use Axle Bolt 710-0347)
7 x 1.5 8 x 1.75	734-0840 734-0841	734-1161 734-1162	7 x 1.5 8 x 1.75	734-0876 734-0661	734-0893 734-0812	12" I.D. Plastic Brg741-0262 (2 per Wheel)



This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

(462-Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—10292 (462).)

# PARTS INFORMATION

#### POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

# BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumse. Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be r ade.

•		
A LADAMA	BIRMINGHAM	NC
ALABAMA	2625 4th Ave. S35233	S
ARKANSAS Sutton's Lawn Mower Shop	F201 Poundton Drive	С
Sutton's Lawn Mower Snop	Box 368, Rt. 4 72117	ΟĒ
	BOX 308, Ht. 4	S
CALIFORNIA	PORTERVILLE 75 North D Street 93257	_
Billious	75 North D Street93257	Ε
COLORADO	DENVER	_
Spitzer Industrial Products Co.	6601 N.	
·	Washington St80229	١
FLORIDA	IACKSONVILLE	_
Radco Distributors	4000 Vietor Ct	Ε
	Roy 5459 32207	
	OPA LOCKA	OH
Small Eng. Dist	2351 N.W. 147th St 33054	'
0-05014	EACT DOINT	OF
East Daint Cools 9 Voy	2034 Church St 30344	ŀ
East Point Cycle & Rey	LYONE	PE
ILLINOIS	LYONS 8615 Ogden Ave 60534	E
Keen Edge Co	DO IS OGGETT AVE	
INDIANA	ELNHANI	7
Parts & Sales Inc	ELKHART 2101 Industrial Pkw/46516	
IOWA	DOBUQUE	1
Power Lawn & Garden Equip	DUBUQUE 2551 J.F. Kennedy 52001	,
LOUISIANA	NEW ORLEANS 8330 Earhart Blvd70118	
Subren Engine Co	8330 Earhart Blvd70118	
MARYLAND	TAKOMA PARK	
MARYLAND  Center Supply Co	6867 New Hampshire	Ti
Octive Cappin Commission	Ave	
MACCACHUCETTS	Ave	Į.
Morton B. Colline Co.	300 Birnie Ave 01107	
MICHIGAN	LANSING	-
Lorenz Service Co	LANSING 2500 S. Pennsylvania 48910	TI
Lorenz Service Co	MOUNT CLEMENS	
Dawe Faulament Diet	340 Hubbard48043	
Power Equipment Dist	HODKING	
MINNESOTA	HOPKINS 420 Excelsior Ave. 'V55343	
MISSISSIPPI	506 Caillavet St 39533	
Biloxi Sales & Service, Inc	506 Camavet St	
MISSOURI	NANSAS CITT	
Automotive Equip. Service	KANSAS CITY 3117 Holmes St 64109	U
	ST. JOSEPH 8th and Monterey 64503	
Ross-Frazier Supply Co	8th and Monterey 64503	V
Henzler, Inc	2015 Lemay Ferry Fld63125	v
NEW JERSEY	BELLMAWR	•
Lawnmower Parts Inc	BELLMAWR 717 Creek Rd08030	V
NEW MEXICO	ALBUQUERQUE	₩1
O Dente	1023 Third Ave. N.V87103	
NEW YORK	CARTHAGE	
Gamble Dist., Inc.	CARTHAGE West End Ave13619	
Cambio Bierry mer.	SCHOHARIE Rt. 30 P.O. Box 527 12157	
Red Fox Parts Dist.	Rt. 30 P.O. Box 527 12157	
HEG I OX I WITO DIOL		

NORTH CAROLINA Smith Hardware Co	GOLDSBORO
Smith Hardware Co	515 N. George St 27530
	CREENSKORO
Dixie Sales Company	335 N. Green27402
	CARRULL
Stebe's Mid-State Mower Supply	. Box 366, 71 High St 43112
	CLEVELAND
Bleckrie, Inc	7900 Lorain Ave 44102
National Central	WADSWUKIN
National Central	YOUNGSTOWN
Burton Supply Co	
Burton Supply Co	Box 929
OKLAHOMA	MUSKOGEE
Victory Motore Inc	MUSKOGEE 605 S. Cherokee74401
0==001	DODTI AND
Kenton Supply Co	8216 N. Denver Ave 97217
PENNSYI VANIA	HARRISBURG
EECO Inc	4021 N. 6th St 17110
Thompson Rubber Co	5222-24 N. Fifth St 19120
	PILIODONUN
Bluemont Co	11125 Frankstown Rd 15235
	PUNXSUTAWNEY
Frank Roberts & Sons	PUNXSUTAWNEYR.D. 2
	SCRANTON
Scranton Auto Ignition Co	KNOXVILLE
TENNESSEE	2000 Western Ave37921
Master Repair Service	MEMPHIS
American Sales & Service, Inc.	3035-43 Relibrook 381
T-V-0	DALLAC
Mary Drothoro Inc	423 F. Jefferson 75203
Man Brothers, mor	FORT WORTH
Woodson Sales Corp	1702 N. Sylvania 76111
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HOUSTON
Builard Supply Co	HOUSTON 2409 Commerce St 77003
Engine House Inc	SAN ANTONIO
Engine House Inc	8610 Botts Lane
	1.0. box 11001
UTAH	SALT LAKE CITY
A-1 Engine & Mower Co	439 E. 900 So 84111
VIRGINIA	ASHLAND
RBI Corp	101 Cedar Ridge Dr23005
WASHINGTON	SEATTLE 1414 14th Ave98122
Bailey's Inc	APPLETON
WISCONSIN Automotive Supply Co	APPLETON
Automotive Supply Co	P.O. Box 798 54911
	CHILTON
Horet Diet	444 N. Madison 53014
110131 0131	

#### WARRANTY PARTS AND SERVICE POLICY

(0783

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the un imited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility:

# CLAIMS AGAINST THE MANUFACTURER'S WARR ANTY INCLUDES:

- 1. Replacement of Missing Parts on new equipme at.
- 2. Replacement of Defective Parts within the warranty period.
- 3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

- 1. Model Number of unit involved.
- 2. Date unit was purchased or first put into service.
- 3. Date of failure.
- 4. Nature of failure.